

What is claimed is:

1. A base station comprising:
 - a packet classification unit configured to classify packets
5 received/ transmitted from/ to a plurality of mobile stations into
a quantitative guarantee type packet having a request value for
communication quality or a relative guarantee type packet not
having the request value; and
 - a transmission order controller configured to control a
10 transmission order of the packets for every classified
quantitative guarantee type packet and every classified relative
guarantee type packet.
2. The base station of Claim 1, wherein the transmission order
15 controller gives priority to the quantitative guarantee type
packet over the relative guarantee type packet, in the
transmission order.
3. The base station of Claim 1, wherein the transmission order
20 controller controls the transmission order based on a quality of
service class.
4. The base station of Claim 1, wherein the transmission order
controller controls the transmission order based on radio quality
25 between the base station and the plurality of mobile stations.
5. The base station of Claim 1, wherein the transmission order
controller controls a transmission order of a plurality of
quantitative guarantee type packets having same request value,
30 such that communication quality for the request value becomes same,
among a plurality of mobile stations receiving/ transmitting the
quantitative guarantee type packets.
6. The base station of Claim 1, further comprising:
35 a measurement unit configured to measure communication
quality for the request value, wherein

the transmission order controller compares the request value with a measured value by the measurement unit, and controls the transmission order based on a comparison result.

5 7. The base station of Claim 1, further comprising:

a measurement unit configured to measure communication quality for the request value, wherein

the packet classification unit restrains storing the quantitative guarantee type packet in a transmission buffer for
10 storing the packets, when a measured value by the measurement unit is more than the request value.

8. The base station of Claim 1, wherein the transmission order controller controls the transmission order such that a number of
15 the quantitative guarantee type packets transmitted in unit time becomes equal to a number of packets satisfying the request value.

9. The base station of Claim 1, further comprising:

a radio resource assignment unit configured to assign radio
20 resources for transmitting the packets to the packets, according to the transmission order.

10. The base station of Claim 9, wherein the radio resource assignment unit assigns the radio resources to the quantitative
25 guarantee type packet based on the request value.

11. The base station of Claim 9, wherein the radio resource assignment unit assigns remaining radio resources to the quantitative guarantee type packet existing in a transmission
30 buffer for storing the packets, after assigning the radio resources to the quantitative guarantee type packet and the relative guarantee type packet.

12. The base station of Claim 1, further comprising:

35 an attaching unit configured to attach the request value to a packet arrived from a core network, based on a quality of

service class for the packet in the core network, wherein
the packet classification unit classifies a packet attached
the request value into the quantitative guarantee type packet,
and classifies a packet not attached the request value into the
5 relative guarantee type packet.

13. The base station of Claim 1, further comprising:

a determination unit configured to determine a quality of
service class in a core network for a packet, which has been
10 received from a mobile station and is to be transmitted to the
core network, based on whether the packet is the quantitative
guarantee type packet or the relative guarantee type packet.

14. A radio communication system comprising:

15 a plurality of mobile stations; and
a base station comprising:

a packet classification unit configured to classify
packets received/ transmitted from/ to the plurality of mobile
stations into a quantitative guarantee type packet having a
20 request value for communication quality or a relative guarantee
type packet not having the request value; and

a transmission order controller configured to
control a transmission order of the packets for every classified
quantitative guarantee type packet and every classified relative
25 guarantee type packet.

15. A communication method comprising:

classifying packets received/ transmitted from/ to a
plurality of mobile stations into a quantitative guarantee type
30 packet having a request value for communication quality or a
relative guarantee type packet not having the request value by
a base station; and

controlling a transmission order of the packets for every
classified quantitative guarantee type packet and every
35 classified relative guarantee type packet by the base station.